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NOTICE OF ALLOWANCE AND FEE(S) DUE

166

7590

09/02/2008

YOUNG & THOMPSON 209 Madison Street Suite 500 ALEXANDRIA, VA 22314

EXAMINER				
HO, HA DINH				
ART UNIT	PAPER NUMBER			
3681				

DATE MAILED: 09/02/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,318	05/10/2006	Sixten Berglund	1546-1003	8076

TITLE OF INVENTION: METHOD OF REGULATING EGR IN AN INTERNAL COMBUSTION ENGINE AND VEHICLE WITH AN ENGINE WITH ELECTRONIC MEANS FOR APPLYING THE METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/02/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

ppropriate. All further ndicated unless correcte naintenance fee notifica	correspondence includir ed below or directed oth tions	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification a) specifying a new co	of m orresp	aintenance fees woondence address;	ill be and/or	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
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YOUNG & TH 209 Madison Str Suite 500	reet	/2008		I here State addre trans	Cert by certify that this s Postal Service we sessed to the Mail mitted to the USPI	ificate s Fee(s ith suf Stop O (57	of Mailing or Transn 5) Transmittal is being ficient postage for first ISSUE FEE address 1) 273-2885, on the da	nission deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
ALEXANDRIA	, VA 22314							(Depositor's name)
								(Signature)
	_							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
	05/10/2006 I: METHOD OF REGUI FOR APPLYING THE	LATING EGR IN AN IN METHOD	Sixten Berglund ITERNAL COMBUST	ΓΙΟΝ	ENGINE AND V	EHIC	1546-1003 LE WITH AN ENGIN	8076 E WITH
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nonprovisional	NO	\$1440	\$300		\$0		\$1740	12/02/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
НО, НА	A DINH	3681	477-107000					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alterically (2) the name of a sregistered attorney 2 registered patent	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on the Ta substitute for filing (B) RESIDENCE: (C	ne par g an a	tent. If an assigne ssignment. and STATE OR C	OUNT	RY)	ocument has been filed for up entity
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a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			 Payment of Fee(s): (i A check is enclosed Payment by credit The Director is here overpayment, to D 	ed. t card reby	. Form PTO-2038 authorized to charg	is atta	ched. required fee(s), any def	
	tus (from status indicated s SMALL ENTITY statu	,	☐ b. Applicant is no	long	er claiming SMAL	L ENT	ΓΙΤΥ status. See 37 CF	FR 1.27(g)(2).
OTE: The Issue Fee and terest as shown by the i	d Publication Fee (if requeecords of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other the Office.	an th	e applicant; a regis	stered a	attorney or agent; or the	e assignee or other party in
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10/541,318	05/10/2006		Sixten Berglund	1546-1003	8076	
466	466 7590 09/02/2008			EXAMINER		
YOUNG & THOMPSON				HO, HA	DINH	
209 Madison Stre	et			ART UNIT	PAPER NUMBER	
Suite 500 ALEXANDRIA,	VA 22314			3681 DATE MAILED: 09/02/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 420 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 420 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	 10/541,318	BERGLUND ET AL.	
Notice of Allowability	Examiner	Art Unit	
	HA D. HO	3681	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comn IGHTS. This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due course. THIS	
2. ☑ The allowed claim(s) is/are <u>1-4</u> .			
3. ☑ Acknowledgment is made of a claim for foreign priority unallocations and a claim for foreign priority unallocations. a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Applicat	ion No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus	es reason(s) why the oath		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
 (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet in the state of the sheet. 	.84(c)) should be written on	the drawings in the front (not the back) of	
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MA	FERIAL must be submitted. Note the	
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 06/30/05 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Paper No 7. ☑ Examiner'	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowance	

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Art Unit: 3681

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Castel on 8/28/08.
- 3. The application has been amended as follows:

Specification

- On page 1, --FIELD OF THE INVENTION-- have been inserted between the title and the first paragraph.
- On page 1, --BACKGROUND OF THE INVENTION-- have been inserted between the second and the third paragraphs.
- On page 2, --SUMMARY OF THE INVENTION-- have been inserted above the first paragraph.
- On page 3, --BRIEF DESCRIPTION OF THE INVENTION-- have been inserted in line 3.
- On page 3, --DETAILED DESCRIPTION OF THE INVENTION-- have been inserted in line 7.

Claims

• Claim 1, line 2, "the" (first occurrence) has been deleted.

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Art Unit: 3681

• Claim 1, line 3, "characterized in that the" have been changed to --comprising calculating a--.

- Claim 1, lines 3-4, "is calculated" have been deleted.
- Claim 1, line 4, "that the" have been changed to --calculating a--.
- Claim 1, line 4, "is calculated" have been deleted.
- Claim 1, line 5, "that the" have been changed to --regulating an--.
- Claim 1, line 5, "is regulated" have been deleted.
- Claim 2, lines 2-3, "characterized in that" have been changed to --wherein--.
- Claim 2, line 3, "that" (second occurrence) have been deleted.
- Claim 3, line 2, "which control" have been changed to --for controlling--.
- Claim 3, line 4, "characterized in that" have been changed to --wherein--.
- Claim 4, line 2, "characterized in that" have been changed to --wherein--.
- Claim 4, line 4, --the-- has been inserted after "regulating".
- 4. The following is an examiner's statement of reasons for allowance: The prior art of record does not disclose or render obvious a motivation to provide for a vehicle and a method of regulating recirculation of exhaust from the exhaust side to the intake side of an engine in the vehicle as defined by the limitations of claims 1 and 3; wherein a future driving resistance of the vehicle is calculated, a time until a future transient in the engine operating state is calculated, and an exhaust flow is regulated during this time when the transient takes place.
- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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Art Unit: 3681

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Cited Prior Art

6. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure: see attached form PTO-892 in which reference shows a control system for controlling

the engine based on the conditions of the vehicle including road resistance.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ha D. Ho whose telephone number is 571-272-7091. If attempts

to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles

Marmor can be reached on 571-272-7095.

8. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/HDH/

(571) 272-7091

September 2, 2008

/Ha D. Ho/

Primary Examiner, A.U. 3681